

6-4-01

## In re Patent Application of

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Atty. Ref.: 1179-46

Serial No.      **Unknown**

Group:

Filed: **February 6, 2001**

Examiner:

For: **POSITION SENSOR**

\* \* \* \* \*

**February 6, 2001**

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

## PRELIMINARY AMENDMENT

Prior to calculation of the filing fee and in order to place the above identified application in better condition for examination, please amend the claims as follows:

**IN THE CLAIMS**

Cancel claims 1 through 41 in favor of new claims 42 through 101 as follows:

-- 42. A position detector comprising:

first and second members which are moveable relative to each other;  
said first member comprising an excitation winding and at least one sensor winding;  
an excitation circuit for applying a driving signal to the excitation winding; and  
said second member comprising means for interacting with said windings such that, in response to a driving signal being applied to said excitation winding by said excitation circuit, there is generated in the or each sensor winding an output signal, said interacting means and said windings being arranged so that said output signal varies as a function of the relative position of the first and second members,

wherein the excitation circuit is arranged to apply a sequence of voltage pulses across said excitation winding, with the duration of said pulses being less than a decay